 h-transporterORF m-transpoterORF	1:ATGAATAGGGCCCCTCTGAAGCGGTCCAGGATCCTGCACATGGCGCTGACCGGGGCCTCA 60 1:ATGGCGCTGACTGGAGTCTT 21
h-transporterORF m-transpoterORF	61:GACCCCTCTGCAGAGGCAGAGGCCAACGGGAGAAGCCCTTTCTGCTGCGGGCATTGCAG 120 22:GCTGTCTCCGAGGAGTCAGAGAGGGGAACAAGCCATTTCTGCTCCGGGCTCTGCAG 78 *** *** **** * *********************
h-transporterORF m-transpoterORF	121:ATCGCGCTGGTGGTCTCCCTCTACTGGGTCACCTCCATCTCCATGGTGTTCCTTAATAAG 180 79:ATCGCGCTGGTCTCTCTCTCTGGGTCACCTCCATTTCCATGGTATTCCTCAACAAG 138 ************************************
h-transporterORF m-transpoterORF	181:TACCTGCTGGACAGCCCTCCCTGCGGCTGGACACCCCCATCTTCGTCACCTTCTACCAG 240 139:TACCTGCTGGACAGCCCCTCCCTGCAGCTGGATACCCCCATTTTTGTCACCTTCTACCAA 198 ************************************
h-transporterORF m-transpoterORF	241:TGCCTGGTGACCACGCTGCTGTGCAAAGGCCTCAGCGCTCTGGCCGCCTGCTGCTGGT 300 199:TGCCTGGTGACCTCACTGTGCAAGGGCCTCAGCACTCTGGCCACCTGCTGCCCGGC 258 ******** * * * * * * * * * * * * * * *
h-transporterORF m-transpoterORF	301:GCCGTGGACTTCCCCAGCTTGCGCCTGGACCTCAGGGTGGCCCGCAGCGTCCTGCCCCTG 360 259:ATGGTAGACTTCCCCACCCTAAACCTGGACCTCAAGGTGGCCCGAAGTGTGCTGCCGCTG 318 ** ******* * * * ******* * * * ********
h-transporterORF m-transpoterORF	361:TCGGTGGTCTTCATCGGCATGATCACCTTCAATAACCTCTGCCTCAAGTACGTCGGTGTG 420319:TCAGTGGTCTTTATCGGCATGATAACCTTCAATAACCTCTGCCTCAAGTACGTAGGGGTG 378
h-transporterORF m-transpoterORF	421:GCCTTCTACAATGTGGGCCGCTCACTCACCGCTCTTCAACGTGCTGCTCCTCCTACCTG 480 379:CCCTTCTACAACGTGGGACGCTCGCTCACCACCGTGTTCAACGTTCTTCTCTCCTACCTG 438 ************************************
h-transporterORF m-transpoterORF	481:CTGCTCAAGCAGACCACCTCCTTCTATGCCCTGCTCACCTGCGGTATCATCATCGGGGGC 540 439:CTGCTCAAACAGACCACTTCCTTCTATGCCCTGCTCACCTGCGGCGTCATCATTGGTGT 498 ****** ** ** ** ** ** ***************
h-transporterORF m-transpoterORF	541:TICTGGCTTGGTGTGGACCAGGAGGGGCACCACACCCTGTCGTGGCTGGGCACCGTC 600 499:TICTGGCTGGGTATAGACCAAGAAGGTGTGGGACCATC 558

Fig. 1-2	h-transporterORF m-transpoterORF	601:TTCGGCGTGCTGCCTAGCCTCTGTGTCTCGCTCAACGCCATCTACACCACGAAGGTGCTC 660 559:TTCGGGGTGCTGGCCAGCCTCTGCGTCTCCCTCAATGCCATCTATACCAAGAAGGTGCTC 618 ***** ***** *************************
	h-transporterORF m-transpoterORF	661:CCGGCGGTGGACGCCATCTGGCGCCTGACTTTCTACAACACGTCAACGCCTGCATC 720 619:CCTGCAGTAGACCACAGTATCTGGCGCCTAACCTTCTATAACAATGTCAATGCCTGCGTG 678 ** ** ** ** ** *** *** **************
	h-transporterORF m-transpoterORF	721:CTCTTCCTGCCCCTGCTCCTGCTCGGGGAGCTTCAGGCCCTGCGTGACTTTGCCCAG 780 679:CTCTTCTTGCCCCTGATGATAGTGCTGGGCGAGCTCCGTGCCCTCCTGGCCTTCACTCAT 738 ****** ****** * * * * * * * * * * * *
	h-transporterORF m-transpoterORF	781:CTGGGCAGTGCCCACTTCTGGGGGATGATGACGCTGGGCGGCCTGTTTGGCTTTGCCATC 840 739:CTGAGCAGTGCCCACTTCTGGCTCATGATGACGCTGGGTGGCCTGTTTGGCTTTGCCATC 798 *** *********************************
	h-transporterORF m-transpoterORF	841:GGCTACGTGACAGGACTGCAGATCAAGTTCACCAGTCCGCTGACCCACAATGTGTCGGGC 900 799:GGCTATGTGACAGGACTGCAGATCAAATTCACCAGTCCCCTGACCCATAACGTGTCAGGC 858 ***** *****************************
	h-transporterORF m-transpoterORF	901:ACGGCCAAGGCCTGTGCCCAGACAGTGCTGGCCGTGCTCTACTACGAGGAGACCAAGAGC 960 859:ACGGCCAAGGCCTGTGCACAGACAGTGCTGGCCGTGCTCTACTACGAAGAGATTAAGAGC 918 ************************************

h-transporterORF m-transpoterORF h-transporterORF	h-transporterORF 961:TTCCTCTGGTGGACGAGCAACATGATGGTGCTGGGGGGCTCCTCGGCTACACCTGGGTC 1020 m-transpoterORF 919:TTCCTGTGGTGGACAAGCAACCTGATGGTGCTGGGTGGTGCTCGGCTCCTCCGCCTACACCTGGGTC 978 ***** ***** ***** ***** *************
m-transpoterORF	979:AGGGGCTGGGAGATGCAGAAGACCCAGGAGGACCCCCAGCTCCAAAGATGGTGAGAAGAGT 1038 ********
h-transporterORF m-transpoterORF	h-transporterORF 1081:GCCATGGGGTGTGA m-transpoterORF 1039:GCTATCAGGGTGTGA ** ** *******

For RT-PCR Forward primer: TGCAGATCGCGCTGGTGGTCTC Reverse primer: GCCCCTGACCCAGGTGTAGGC

Fig. 2

AGCTCTTCTACCACCATGAACAGGGCCCCTCTGAAGCGGTCCAGGATCCTGCGCATGGCGCTGACTGGAGGCTCCACTGCCTCTGAGGAG TCCCCTCGACTCGTCCCTATTAGGCAACAGCCCCTGTGGTCCAGCCGGCCATGGCTGTCAAGGCTCACACCCTTAGCTAGGCCCCTTCTC AGCCATGTGACAATTGAAGGCTGTACCCCCCAGACCCTAACATCTTGGAGCCCTGTAGACCAGGGAGTGCTTCTGGCCGTGGGGTGACCT GGCATCATCATTGGTGGTTTCTGGCTGGGTATAGACCAAGAGGGAGCTGAGGGCACCCTGTCCCTCATAGGCACCATCTTCGGGGTGCTG ACCCACAATGTATCAGGCACAAGGCCTGTGCGCAGACAGTGCTGGCCGTGCTCTATTGAAGAGACTAAGAGCTTCCTGTGGTGG CCCATGGAGCTAGCCAGTGTGGCCCTGAGCAATACTGTTTACATCCTTCGTTGGAATATGATCTAAGAGGAGCCAGGGTCTTTCCTGGTAA TGTCAGAAAGCTGCCAAATCTCCTGTCTGCCCCATCTTGTTTTGGGAAAACCCTACCAGGAATGGCACCCCTACCTGCCTCCTCCTAGAG CCTGTCTACCTCCATATCATCTCTGGGGTTGGGACCAGCTGCAGCCTTAAGGGGGCTGGATTGATGAAGTGATGTCTTCTACACAAGGGAG ATGGGTTGTGATCCCACTAATTGAAGGGATTTGGGTGACCCCACACCTCTGGGATCCAGGGCAGGTAGAGTAGTAGCTTAGGTGCTATTA GCAGATGAAGACAGCAGGAACAAGCCGTTTCTGCTGCGGGGGGCTGCTCGCGCTGGTCGTCTCTCTCTTTACTGGGTCACCTCCATCTCC TCTCTGCTGTGCAAGGGCCTCAGCACTCTGGCCACCTGCTGCCCTGGCACCGTTGACTTCCCCACCCTGAACCTGGACCTTAAGGTGGCC CGCAGCGTGCTGCCACTGTCGGTAGTCTTCATTGGCATGATAAGTTTCAATAACCTCTGCCTCAAGTACGTAGGGGGTGGCCTTCTACAAC GTGGGGGCGCTCGCTCACCACCGTGTTCAATGTGCTTCTGTCCTACCTGCTGCTCAAACAGACCACTTCCTTTCTATGCCCTGCTCACATGT GCCAGCCTCTGCGTCTCCCTCAATGCCATCTATACCAAGAAGGTGCTCCCAGCAGTGGACAACAGCATCTGGCGCCTAACCTTCTATAAC AATGTCAATGCCTGTGTGTGCTTTTTTGCCCCTGATGGTTCTGCTGGGTGAGCTCCGTGCCCTCCTTGACTTTGCTCATCTGTACAGTGCC CACTÍCTGGCTCATGATGACGCTGGGTGGCCTCTTCGGCTTTGCCATTGGCTATGTGACAGGACTGCAGATCAAATTCACCAGTCCCCTG ACAAGCAACCTGATGGTGCTGGTGGCTCCTCCAGCCTATACCTGGGTCAGGGGGCTGGGAGATGCAGAAGACCCAAGAGGACCCAGCTCC AAAGAGGGTGAGAAGAGTGCTATTGGGGTGTGAGCTTCTTCAGGGACCTGGGACTGAACCCAAGTGGGGCCTACACAGCACTGAAGGCTT GTATGGCAGACCTGTTCATGGCAGCTGCACCCTGGGGTGGCTGATAAGAAAACATTCACCTCTGCATTTCATATTTGCAGCTCTAGAACG GTCCACTTGTAACCTCTGTTCCCATGACAGAGCCCTTTGAATACCTGAACCCCTCATGACAGTAAGAGACATTTATGTTCTCTGGGGGCTG

For Probe5' side

Forward primer: TGCAGATCGCGCTGGTGTCTC

Reverse primer: GCTCCTTCTTGGTCTATACC

3' side

Forward primer: AGACCACTTCCTTGTGCC

Reverse primer: GCCCCTGACCCAGGTGTAGGC

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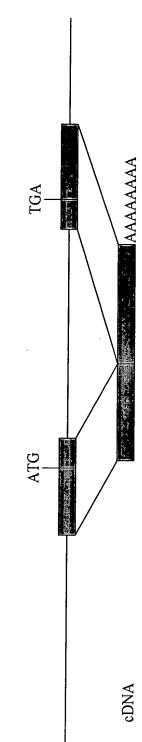
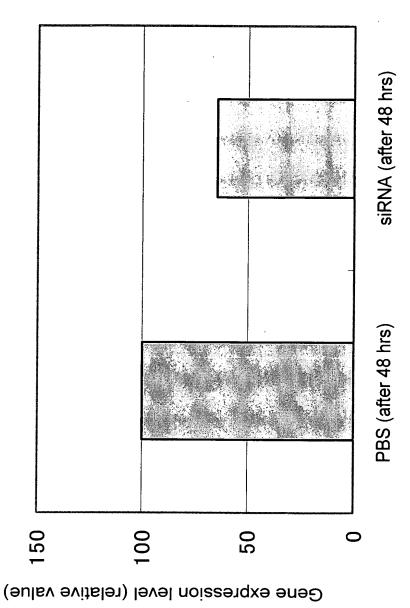


Fig. 4-1

AGTAGACGGACCTCTGTTAGTTCAAGTCTACCATTACCTACACAAGAGTGAAGAGTAACCGATCTCATGCCTTTGATCCCAGCAGCTGGGATCATGTGCA CTGATCTTCAGCTTGAAGCTTGAACTCCAATATTTGTCTCTGGGTCTATTATTCATGTTACACCTAACTTTAAAAGCTGATTTACGCAAGACAGTTGTAG GAACACTGGAATTATAGTCAAGGCCTACCTGCCCTGGCATTTTCACACTTTTATTTCTGGCTGAGTCCATTGACTTTACACTCATCAAGGTTGAACCAGT AGGCGTCCCAAGAGGGCTGGGGCGGAAGGGGGAAGACAGGGTCGGCCTTAGATAGGGCAAAGGGCCTTCTGGCTGTGTTCCCGGGGGTAACCGCCCCAC GGAAGGGATCCGGGACACCGAATTGCTGCATTGAGGGGCTCAGAGGTTCTGATGTGGGAGTCCAGAAAGGGTTTTATCTACCGGAGGTGATGTGACTTC CTTCCAGAAACTGGGAGAGGCTCTAGCACCTGCAACCCCTTCCCTGGCCTCCGGGGAGTCCCAGAAGAGGGCAGGACCATGGACACAGGTGCATTCGTG CCTGATTCAGAATAGACCCCCGAAAAAAGGCAAATGCTTGATAACCAATTTCTTCTTATTGTTCAATCCCCTGCTGTGTGTAAGCTCCTGAGAAAGG | FCCCAGCTCAGGAGTAAAAGACCTGGAGGGGTGGCCCACTTCGGTCAAGTTCACGGGATGGGGAGGGGTACCCTCCTCCAGTAGTGGTGGTATTTGGC GTGTCAGGAAATGCGCCCTGAGCCCGCCCCTCCCGGAACGCGGCCCGAGACCTGGCAAGCTGAGACGGAACTCGGAACTAGCACTCGGCTCGCGGCCTC GAGCTCAATTAACCCTCACTAAAGGGAGTCGACTCGATCCTTTACAGAAAACTTGCAAACCTCTTGGAGTAGAAAAGTAGTAGTATCTGACACAAGTA ACAGTAAGGGGACATTCATGATCAGAGAAAGAGCCCCAACTCCCCCCCAGCCCCACCCCACCCTGTCCACAGTCTGTTGGTTTGGTTTCCCCCTGGCT GCTCCAATGTACAGCTTCTCAGACACTGCAGGAACCTTCCTCTCTAATGCAGCACTGGTCTTCAGGCTGGACAGCAGGAACCCATACCACTCCAATC TGGTCAACCACACAATTTCCGAAATGTTGCTGGCTCAGTCTGGGGCAAACCTGTCCGCCCCAACATTGGTGCTAGGAAGAAAGCACAGACAAGTAGCCC TCAGCAAAATGCAAACTTCTCCCCATCCCCAGAAAACCATTATAAAAACCCCCATATCTTATGCCCAACTGTAGTGATATTATTATGATTTATTAAAA TCTGGTTCTGCCCTTTATCCCAGAATTCTCCTAGTCTGGCTCTCCTGCCCAGCTATAGGCCAGTCAGCTGTTTATTAACCAATGAGAATAATACATATTTA TAGTGTACAAAGATTGCTCCTCAACACCCCAATTTTTTATGTGCAACCTGAGAATCTGGACTCATTGCCTCATGCTTGCAGAGGCGGCACCCTTACCCAC TAAGCCACCTTTCTAGCCCTGTTGCTTTTTTGAGACAGGTTCCACTATGTAGCCCAGGCTGGCCTCAAACTGACCATTCTCCTGCCTAAACCTCCC TGGAGTTTAATTACAGTGCCAATCGCACTGAATCCCACATAATCAAACAACTTCAAGGAAGCAAAAAAACAGTTTTTCCTGAAGATCAATGTCAGCTTG GACACCCAGAAATCACAACATAATCACCTAGGTCACTGTAACAAGTTCCTTTCTGGAAAATGCTACAAATGATATTGGTAACATGAGTAATGAATAATG CCTGGAGTCCAACTCCCTTGTGACCCAGCAATGTTTTCCGTGGGTGCTCCCTTCCCCAGCTGCAGGCCTGACATGTACCTTAAAAAGCCTCCCTGGAGG CTAGTGTGGAGTAGAGCTGTCTACGAAAACCAGCAGATCTATAGCTAAATGTGTTTCAATTTTATGCTTTGACAAATTGTACTGACCCCACCCCACCCC TTGACCTTCCTACCTCAGCTGAGACTACAAGTCTTTTACCATCAGGCCCGGCTGATGGTAAAATAACAGTATTTGAAATAGTTTAAACACACATCATCTTAA CACGCCTGGAGCCCGACGTGGCGAGCGATGGGGACAGCGAGCAGGAAGTCGTACTGGGGAGGGCCGCGTAGCAGATGCAGCCGAGGGGCGGCTGCC AGCAATGTCTTCCCGAACGACCTGGGTTCGGGAGGGGTCGAAGGACAAGGGGCTGTTGTGGGGGGGTCTTCAGACGCGGAGGGGTGGTATTCTATTTTCT TTCCCCCTTGCTGTGCTGGGAATTGAACCCAGGACCTTGTGCATGCCAGGCAAGTACTCTAACACTGAGCTATAGCCCCAATCTTTCATCCAAGTCTCTA AGTTCCTCCACCGACGCCCTCTGGAAGCACCTGCTTGGACCCGCAAAGCCAGGAATGCAGGCTTCCTCAAGGGACTCGCCAGCGAGGGTAACAGGACAG CCGGCGCGCTCCGGCCTGGCGAAGGTGCGCGCTCTTGGAGGCCGCGGGAGGGCCAGACGCGCGCCCGGAGAGCTGGCCCTTTAAGGCTACCCGGAGGC

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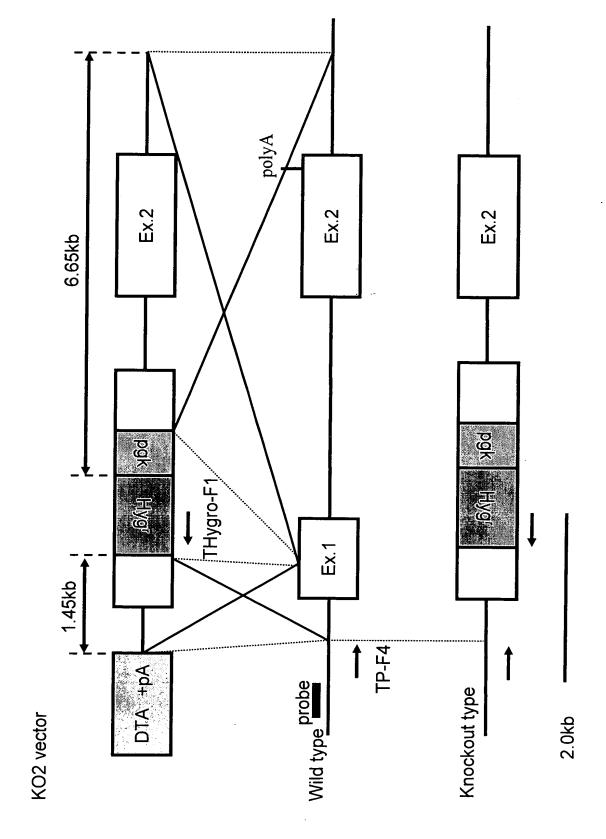
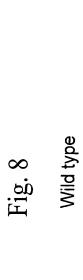
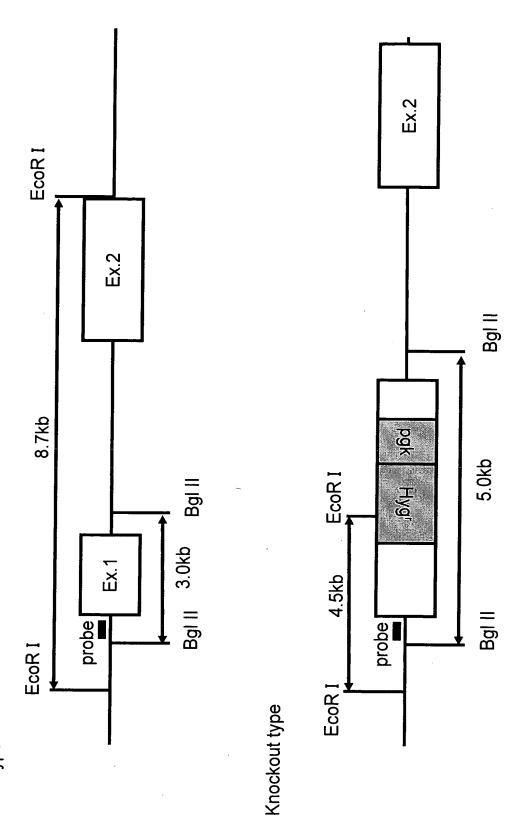
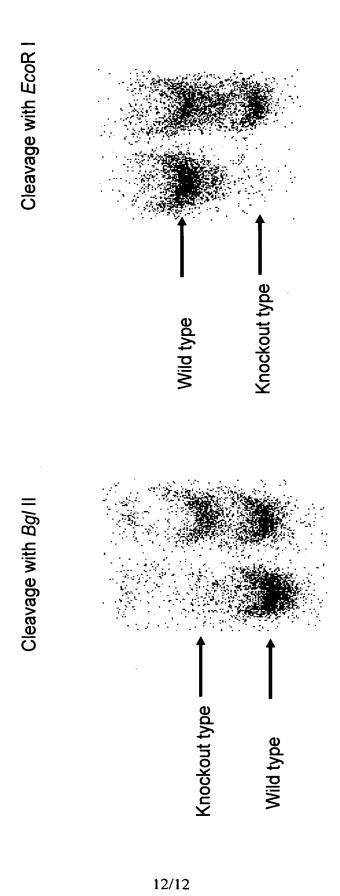


Fig. 6

Fig. 7







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